WBLE-SL ▶ UECM3	473-202201-EZZ ► Quizzes ► 202201UECM34730E4a ► Review of preview		Update this Quiz
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	on Friday, 18 March 2022, 10:48 AM Friday, 18 March 2022, 10:48 AM		
	20 secs		
Grad	de 0 out of a maximum of 10 (0 %)		
1 Marks: 1	 Suppose the losses X₁, X₂,, X_n have E(X_j) = 300, V(X_j) = 165, and Co. You are given X₁ = 210, X₂ = 240, X₃ = -130. The credibility premium for the 5th observation is 240 based on the first 		
	Determine the credibility premium for the 6^{th} observation if $X_5 = 345$.		
	Answer:	X	
	Make comment or override grade		
	Incorrect		
	Correct answer: 258.792614 Marks for this submission: 0/1.		
	ridiks for this submission. 0/1.		
2 🕏 Marks: 1	You are given the following: (i) Two risks have the following severity distribution.	Probability of Claim Amount Amount of Claim Risk 1 Risk 2 440 0.35 0.35	
		4790 0.43 0.35	
	(ii) Diale 2 in three times as likely as Diale 1 of heigh changed	17600 0.22 0.30	
	(ii) Risk 2 is three times as likely as Risk 1 of being observed.(iii) A claim of 440 is observed, but the observed risk is unknown.Determine the Buhlmann estimate of the expected value of a second claim amount		
	Answer:	X	
	Make comment or override grade		
	Incorrect		
	Correct answer: 6828.153974 Marks for this submission: 0/1.		
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2 ==	Valuate given the following.		
3 ☑ Marks: 1	You are given the following:		
PIGINS. 1	 The conditional distribution f_{X Θ}(x θ) is a member of the linear exponent The prior distribution n(θ) is a conjugate prior for f_{X Θ}(x θ). 	ciai ramiiy.	
	 E(X) = 10.00. E(X₂ X₁ = 100) = 32.50, where X₁ is the value of single observation. 		
	 E(X₂ X₁ = 100) = 32.50, where X₁ is the value of single observation. The expected value of the process variance is 150.00. 		

	Determine the variance of the hypothetical means			
	Answer:		7 <i>x</i>	
	Make comment or override grade Incorrect Correct answer: 50 Marks for this submission	: 0/1.		
4 © Marks: 1	 The number of claims for each 	reds, A and B. Each group is equally large. th member of either group follows a Poisson distribution. Information on mean number of claims for members of each group. Group Average Variance of Hypothetical Mean Hypot		
	Calculate the Buhlmann credibility to	alculate the Buhlmann credibility to assign to one of a member		
	Answer:] x	
	Make comment or override grade Incorrect Correct answer: 0.1667 Marks for this submission	: 0/1.		
5 ♥ Marks: 1		Annual aggregate claim costs vary for each insured, based on the insured's diet and exercise habits. The following table lists the mean and variance of annual aggregate claim costs per insured. Annual aggregate claim costs Bad Diet Good Diet Exercise Expected Claim Habit Claims Variance Claims Variance Sedentary 10 25 6 12 Active 8 10 4 10 Total 9.0 18.5 5.0 12.0 Ind 40% have a good diet. Calculate the Buhlmann credibility factor for one year of experience		
	Answer:		$\exists x$	
	Make comment or override grade Incorrect Correct answer: 0.2452 Marks for this submission	: 0/1.		
6 ☑ Marks: 1	The number of claims per year on a pathe following year.	a policy follows a Poisson distribution with parameter Λ. Λ has a uniform distribution on [0,5]. An insured sunmits 6 claims in one year. Calculate the Buhlmann credibility estimate of the number of claims for		
	Answer:		_ x	
	Make comment or override grade Incorrect Correct answer: 4.090909 Marks for this submission	: 0/1.		
7 ☑ Marks: 1	You are given: • An insured's loss size follows a • The parameter θ varies by insu • An insured submits claims of 7	single-parameter Pareto distribution with parameters $\alpha=3$ and θ . red uniformly on [580,1100]. 50, 1010, 1330		

	Using Buhlmann credibility methods, estimate the expected size of the next claims			
	Answer:	X X		
	Make comment or override grade Incorrect Correct answer: 1209.895445 Marks for this submission	: 0/1.		
8 ₩ Marks: 1	 Claim sizes follow a distribution the number of claims and claim A and O have a prior probabilit where A is a constant. During the first year we observ During the second year we obs 	distribution with mean λ and variance $e^{0.085\lambda}$. In with mean θ and variance $e^{0.1\theta}$. In sizes are independent. By distribution with joint density function $f(\lambda, \theta) = A \lambda^4 \theta^4 e^{-(0.1\lambda + 0.2\theta)}, \lambda, \theta > 0$ Wed 2 claims and the claim amounts are 540, and 440. Served 3 claims and the claim amounts are 340, 380 and 370. The expected aggregate loss for the third year.		
	Answer:	X		
	Make comment or override grade Incorrect Correct answer: 1223.73 Marks for this submission	: 0/1.		
9 🕏 Marks: 1	 The parameter θ varies by insu An insured submits claims of 7 	a single-parameter Pareto distribution with parameters α = 5 and θ. sured uniformly on [540,900]. 720, 940, 1140 , estimate the expected size of the next claims		
	Answer:	X		
	Make comment or override grade Incorrect Correct answer: 915.957447 Marks for this submission	: 0/1.		
10 🕏 Marks: 1	Let A_1 and A_2 be equally likely frequency distributions and let B_1 and B_2 be equally likely severity distributions. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	Answer:	x		
	Make comment or override grade Incorrect Correct answer: 99.401035 Marks for this submission	: 0/1.		



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